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TITLE : DEODORIZED, ACARICIDAL AND ANTIMICROBIAL YARN AND ITS PRODUCTION

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a yarn having deodorizing, acaricidal and antimicrobial composite functions without inhibiting other functions by imparting a deodorizing component, an acaricidal component and an antimicrobial component to the surfaces of fibers through resin binders, respectively.

SOLUTION: A deodorizing component comprising an acid anhydride group- having polymer such as Zeonclean ZCL 1015 (produced by Nippon Zeon Co.) is adhered to the surfaces of polyester short fibers through a resin binder. Separately, an acaricidal benzoate component and an antimicrobial component comprising a trichlorocarbene compound are imparted to acrylic short fibers through a resin binder. The treated acrylic short fibers are blended with the treated polyester short fibers, subjected to the adhesion of a copper deodorizing component such as copper sulfate, and subsequently spun to obtain the spun yarn in which the components are adhered in amounts of 0.1-5.0wt.% respectively.

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